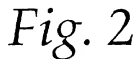
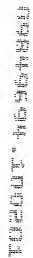
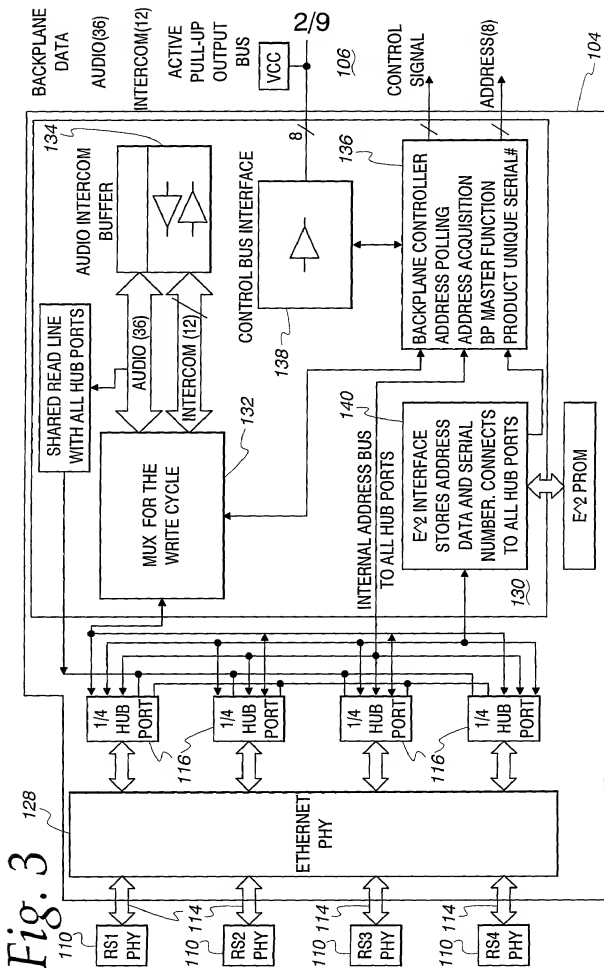


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Fig. 4A

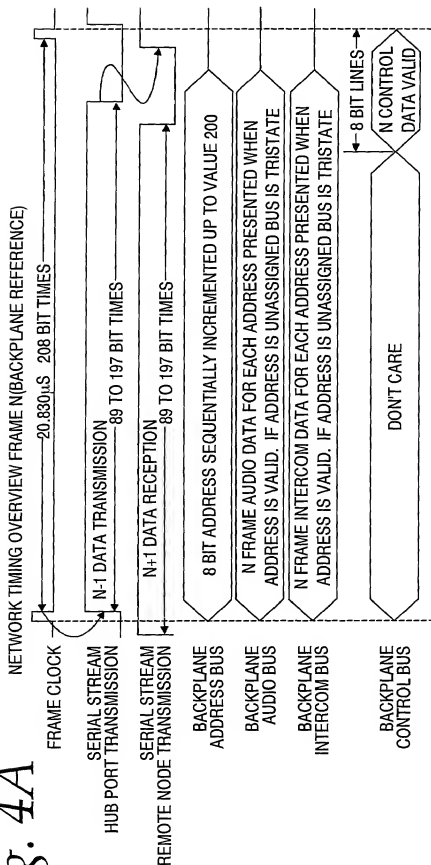


Fig. 4B

PREAMBLE	CBS	HUB CONTROL	DATA	ICOM	LEFT AUDIO 1	RIGHT AUDIO 1	LEFT AUDIO 2	RIGHT AUDIO 2	LEFT AUDIO 3	RIGHT AUDIO 3	LEFT AUDIO 4	RIGHT AUDIO 4
AAAAABh	CBS	HC7 ... HC0	D7 ... D0	I7 ... I0	A1L17 ... A1L0	A1R17 ... A1R0	A1L17 ... A2L0	A2R17 ... A2R0	A3L17 ... A3L0	A3R17 ... A3R0	A4L17 ... A4L0	A4R17 ... A4R0

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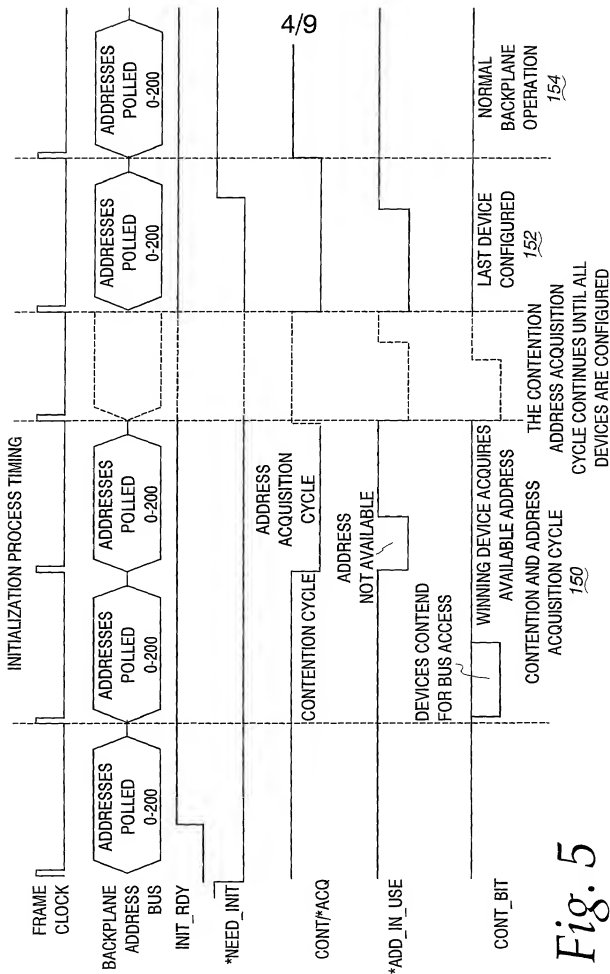


Fig. 5

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10201-10201



*Fig. 7a*

```

graph TD
    IDLE(IDLE AND MONITOR)
    DRIVE_LO_TRANSMIT(DRIVE *CBS LO TRANSMIT)
    DRIVE_LO_ARBITRATE(DRIVE *CBS LO ARBITRATE)
    BACKOFF(BACK OFF AND WAIT)

    IDLE -- "*CBS LO BUS IS BUSY" --> IDLE
    IDLE -- "182 *CBS HI START TRANSMISSION" --> DRIVE_LO_ARBITRATE
    IDLE -- "186 PREAMBLE SENT= TO PREAMBLE RETURNED" --> DRIVE_LO_TRANSMIT
    DRIVE_LO_TRANSMIT -- "180 *CBS HI TRY AGAIN" --> DRIVE_LO_ARBITRATE
    DRIVE_LO_TRANSMIT -- "188 *CBS LO BUS IS BUSY" --> BACKOFF
    DRIVE_LO_ARBITRATE -- "184 PREAMBLE SENT≠LO PREAMBLE RETURNED" --> BACKOFF
    BACKOFF -- "180 *CBS HI TRY AGAIN" --> DRIVE_LO_ARBITRATE
    BACKOFF -- "188 *CBS LO BUS IS BUSY" --> BACKOFF
  
```

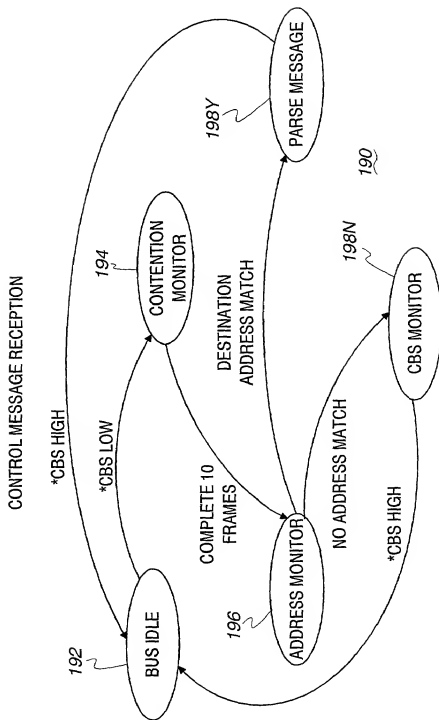
The flowchart illustrates the states and transitions of the CSMA/CD protocol. The states are represented by ovals: IDLE AND MONITOR, DRIVE \*CBS LO TRANSMIT, DRIVE \*CBS LO ARBITRATE, and BACK OFF AND WAIT. Transitions are labeled with conditions and line numbers: 182, 184, 186, 188, and 180. The transitions are as follows: IDLE AND MONITOR to IDLE AND MONITOR on condition \*CBS LO BUS IS BUSY; IDLE AND MONITOR to DRIVE \*CBS LO ARBITRATE on condition 182 \*CBS HI START TRANSMISSION; IDLE AND MONITOR to DRIVE \*CBS LO TRANSMIT on condition 186 PREAMBLE SENT= TO PREAMBLE RETURNED; DRIVE \*CBS LO TRANSMIT to DRIVE \*CBS LO ARBITRATE on condition 180 \*CBS HI TRY AGAIN; DRIVE \*CBS LO TRANSMIT to BACK OFF AND WAIT on condition 188 \*CBS LO BUS IS BUSY; DRIVE \*CBS LO ARBITRATE to BACK OFF AND WAIT on condition 184 PREAMBLE SENT≠LO PREAMBLE RETURNED; BACK OFF AND WAIT to DRIVE \*CBS LO ARBITRATE on condition 180 \*CBS HI TRY AGAIN; and BACK OFF AND WAIT to BACK OFF AND WAIT on condition 188 \*CBS LO BUS IS BUSY.

+

Fig. 7b

PREAMBLE	DESTINATION ADDRESS	SOURCE ADDRESS	NUMBER OF BYTES IN PAYLOAD	PAYLOAD	CHECKSUM
10 BYTES	1 BYTE	1 BYTE	2 BYTES	0-65KBYTES	2 BYTES

Fig. 8



+

Fig. 9

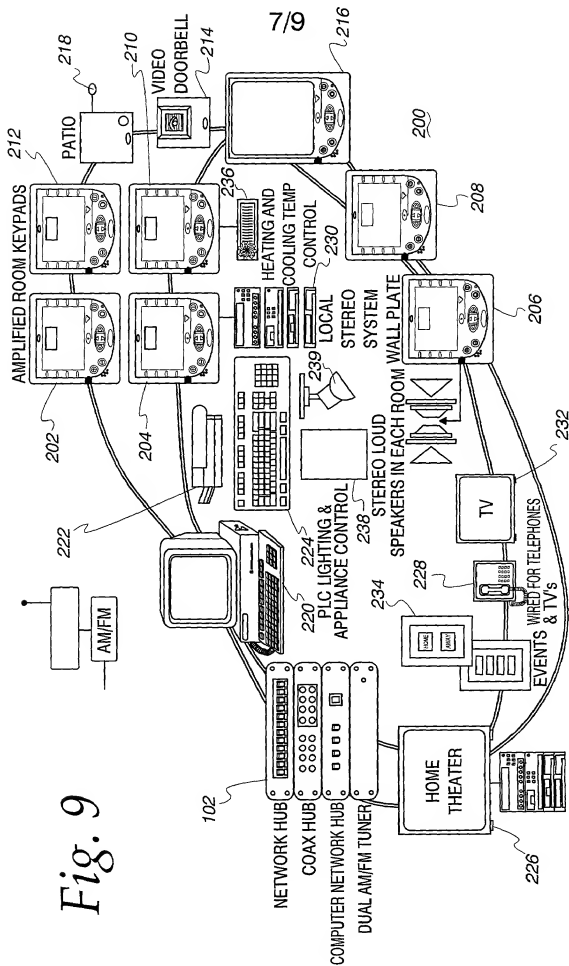


Fig. 10

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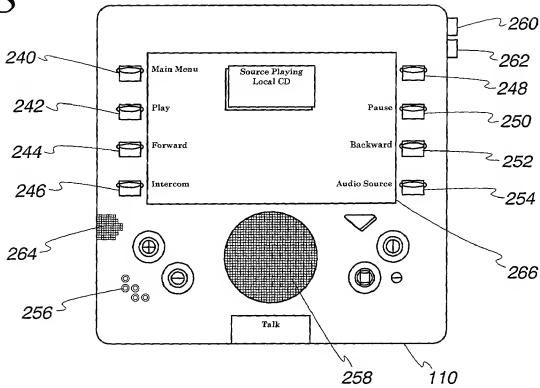
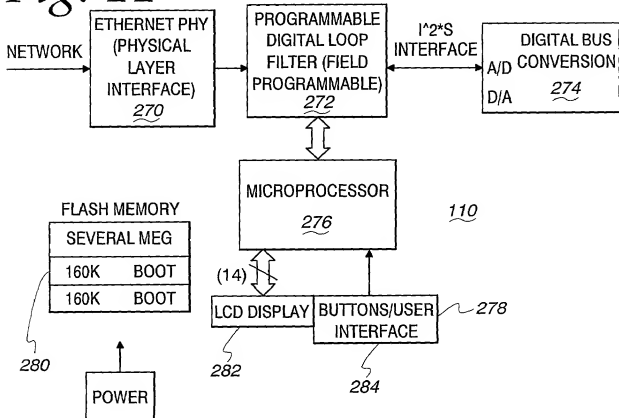


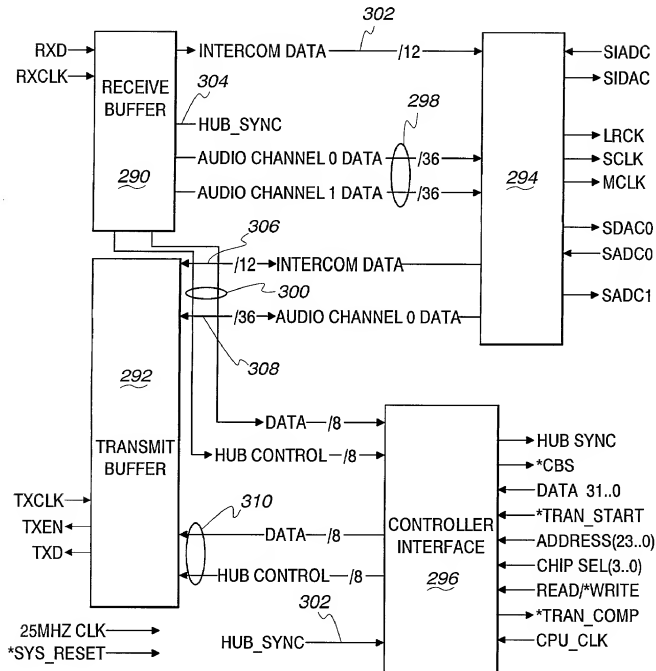
Fig. 11





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Fig. 12





UNITED STATES PATENT AND TRADEMARK OFFICE

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UNITED STATES PATENT AND TRADEMARK OFFICE  
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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/849,694	05/04/2001	Stephen Robert Tomassetti	68779

CONFIRMATION NO. 8187

22242  
FITCH EVEN TABIN AND FLANNERY  
120 SOUTH LA SALLE STREET  
SUITE 1600  
CHICAGO, IL 606033406

FORMALITIES LETTER



\*OC0000000008257109\*

Date Mailed: 07/03/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

10/05/2001 BABRAH1 00000015 09849694

FC:105

130.00 DP

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 130.**

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
  - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. (5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);

*A copy of this notice **MUST** be returned with the reply.*

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

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Fig. 6

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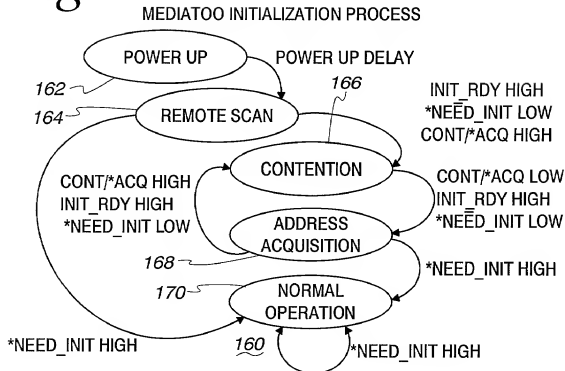
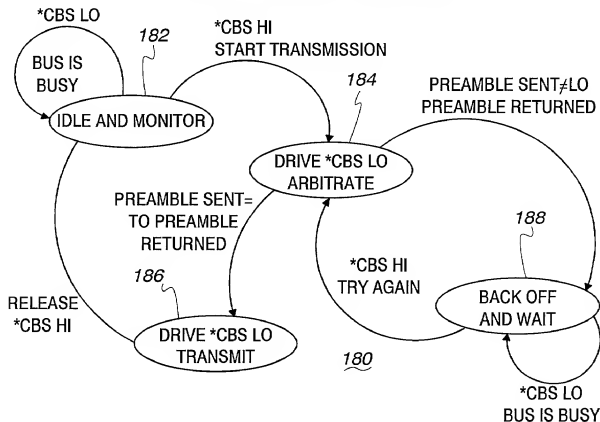


Fig. 7a

CONTROL MESSAGE TRANSMISSION



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PREAMBLE	DESTINATION ADDRESS	SOURCE ADDRESS	NUMBER OF BYTES IN PAYLOAD	PAYLOAD	CHECKSUM
10 BYTES	1 BYTE	1 BYTE	2 BYTES	0-65KBYTES	2 BYTES

Fig. 7b

CONTROL MESSAGE RECEPTION

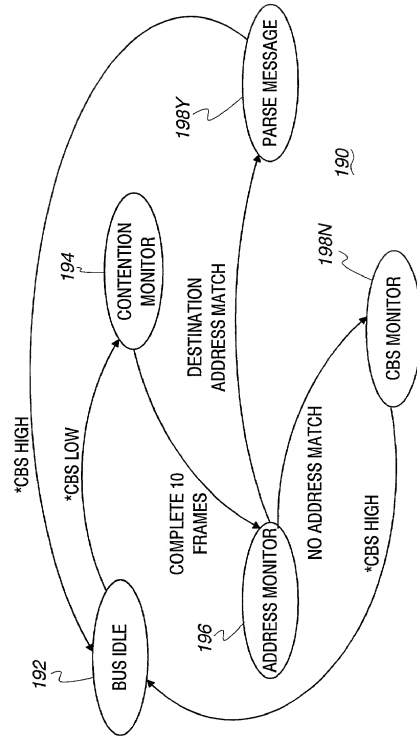


Fig. 8

# Abstract



Fig. 10

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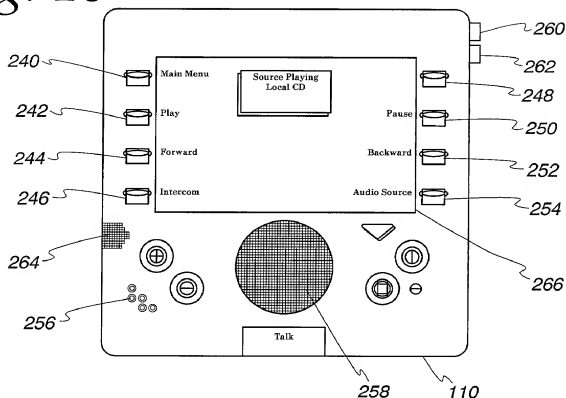
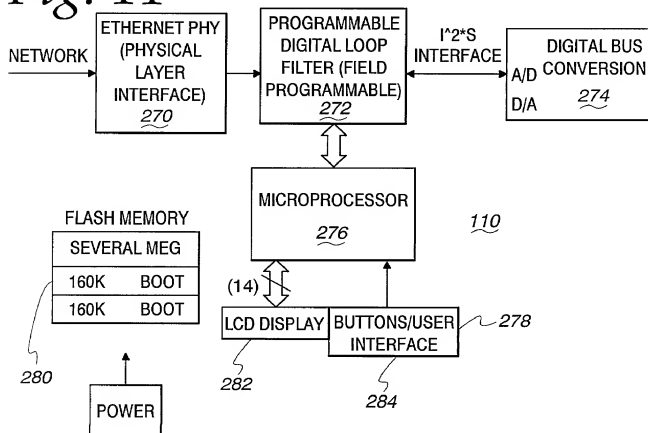


Fig. 11





PATENT APPLICATION

Attorney Docket No. 68779

Date: September 28, 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Tomassetti, et al.

Appln No.: 09/849,694

Filed: May 4, 2001

Title: DIGITAL MULTI-ROOM,  
MULTI-SOURCE ENTERTAINMENT  
AND COMMUNICATIONS NETWORK

Group Art

Unit: 2661

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on this date.

09/28/2001

Date

Timothy E. Levstik

Registration No. 30,192

Attorney for Applicants

RESPONSE TO NOTICE TO FILE MISSING PARTS

Box MISSING PARTS

Commissioner of Patents and Trademarks

ATTENTION: Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

In response to the Notice to File Missing Parts dated July 3, 2001, enclosed are:

- (X) A copy of the Notice to File Missing Parts.
- (X) Executed Declarations for the above-captioned patent application, including Powers of Attorney.
- ( ) Assignment(s) of the invention to \_\_\_\_\_, and Recordation Form Cover Sheet - Patents Only - Form PTO-1595.
- ( ) A check in the amount of \$\_\_\_\_\_ to cover the fee for recording the assignment(s).
- (X) Petition for Extension of Time (2 pages in triplicate).
- ( ) A request for correction of the official filing receipt.